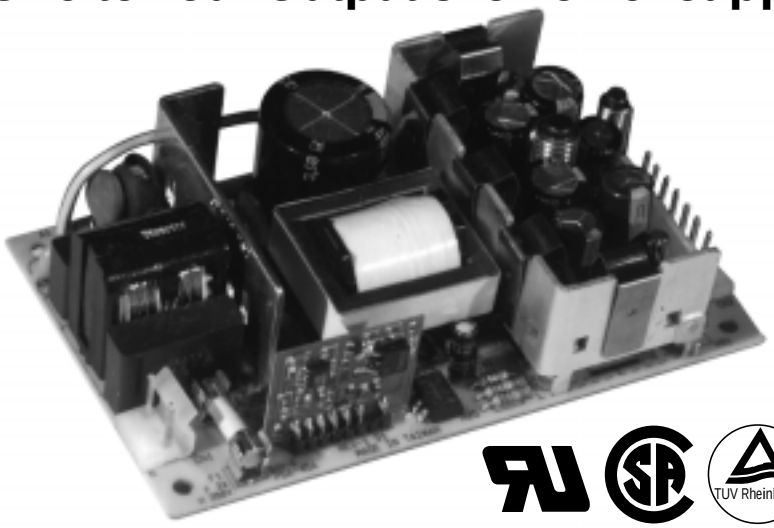
45W Universal Low Leakage, Class B EMI Series

PSA-45
One to Four Output 3x5 Power Supplies



Features

- Industrial grade
- Zero minimum loads
- Surface mount controller
- Low leakage
- ISO 9001 quality system
- Extended design life

Applications

- Networking
- Communications
- Peripherals and terminals
- Mini-Microcomputers

Safety Approvals

- UL 1950
- CSA 22.2 234
- TUV IEC 950

Mechanical Characteristics

Dimensions:
- Length: 127mm (5.0in.)
- Width: 76.2mm (3.0in)
- Height: 30mm (1.2in)
- Weight: 0.27kgm (0.87lb)

Output Specifications

Model	DC Output	Load				Ripple (1)	Total(2)
	Voltage	Min.	Convection	20cfm	Peak(3)	P-P	Tolerance
PSA-45-050	+5V	0A	8A	10A	10A	50mV	+2%
PSA-45-120	+12V	0A	4A	5A	5A	120mV	+2%
PSA-45-150	+15V	0A	3A	4A	4A	150mV	+2%
PSA-45-240	+24V	0A	2A	2.5A	2.5A	240mV	+2%
PSA-4531	+5V	0A	4A	5A	7A	50mV	+2%
	+12V	0A	1.5A	2.5A	4A	120mV	+5%
	-12V	0A	0.5A	0.5A	1A	120mV	+5%
PSA-4534	+5V	0A	4A	5A	7A	50mV	+2%
	+15V	0A	1.2A	2A	3A	150mV	+5%
	-15V	0A	0.5A	0.5A	1A	150mV	+5%
PSA-4541	+5V	0A	3A	5A	7A	50mV	+2%
	+12V	0A	2A	2A	4A	120mV	+5%
	-12V	0A	0.5A	0.5A	1A	120mV	+5%
	+5V	0A	0.5A	0.5A	1A	50mV	+5%

(1) Measured at 45W by using a 12in. twisted pair terminated with a 10mfd capacitor and a 0.1mfd ceramic in parallel.

(2) See reverse for exact tolerances; may deviate during peak loading conditions.

(3) Peak output of less than 30 seconds; total peak power not to exceed 60W.

PI-ING

ISO 9001 • BABT
Facility Approvals

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Characteristics

AC Input Voltage
90-264VAC

AC Input Frequency
47 to 63Hz

AC Input Current
1A rms (120VAC)
0.5A rms (240VAC)

AC Inrush Current (Cold Start)
20A max., at 120VAC, 45W
40A max., at 240VAC, 45W

Efficiency
70% @ 45W 120VAC, 60Hz

Regulation (Line)
V1 +2%; V2-4 +2%

Regulation (Load or Cross)
V1 +2%; V2-4 +5%
(Measured output at 20%-100% load;
other outputs at 60% of load)

Hold-up Time
12msec. 45W load, 120VAC

Switching Frequency
50KHz, typical

Overvoltage Protection
Crowbar, V1 only;
(on multiples 5.6 to 6.5VDC)

Overcurrent Protection
Short circuit, all outputs, auto restart

Operation Temperature
0-50˚C, derated to 50% at 70˚C

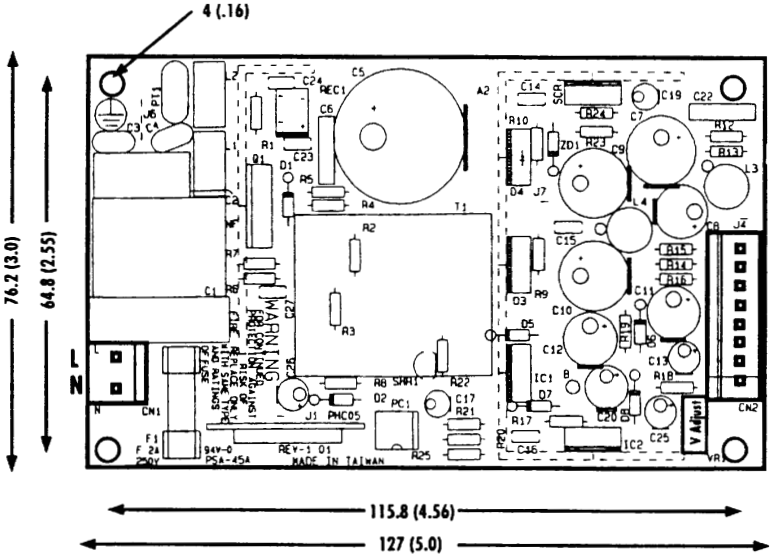
Storage Temperature
-25˚C to +85˚C

MTBF
Calculated
Greater than 100,000 hours, (MIL-HDBK-217)

EMI
FCC Class B
IEC EN55022B
VFG243

Mating Connectors
AC: Molex 09-50-3031
DC: Molex 09-50-3061
or 3081 (Quad only)

Dimension Diagram Unit: mm (inch)



Output Connections

Multiple	Single
V2	V1
V1	V1
V1	V1
RETURN	RETURN
RETURN	RETURN
V3	RETURN
V4+	Quad only
V4-	Quad only

45M/701

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